Attorney Docket No.: 3926.070

[0003]

IN THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-5. (Cancelled)

6. (currently amended) A process for laser beam welding a plate, with pre- and/or post- thermal treatment in the area of the weld seam, with a laser beam with substantially constant output for both the welding and thermal treatment, comprising

welding a surface of the plate to form a weld seam, and carrying out a thermal treatment by guiding with said laser beam over said surface prior to and/or after said welding,

wherein said welding and thermal treatment are separated timewise from each other in such a manner that the temperature reduction of the respective illuminated surface from the point in time of the first illumination to the point of the subsequent illumination is less than 50%, and

wherein during the thermal treatment the laser energy input, based on the illuminated surface area and time, is adjusted by defocusing the laser beam and/or increasing the rate of advance in such a manner that the side of the existing or to-be-formed weld seam opposite to the laser beam is warmed by at least 10°C.

7. (previously presented) The process according to Claim 6, wherein the laser beam is guided along the surface via a scanner device.

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- 8. (previously presented) The process according to Claim 6, wherein the laser beam during thermal treatment is defocused in such a manner that its focus is from 2 to 50 mm from the surface of the laser beam facing side of the plate.
- 9. (previously presented) The process according to Claim 8, wherein said focus is approximately 20 mm from the surface of the laser beam facing side of the plate.
- 10. (previously presented) The process according to Claim 6, wherein during the thermal treatment the laser beam is guided in such a manner that a transverse movement component is superimposed over its main direction of advance.
- 11. (previously presented) The process according to Claim 10, wherein said transverse movement component is a circular movement component.
- 12. (previously presented) The process according to Claim 6, wherein welding and thermal treatment occur alternatingly in the manner of a step seam.